NEUROPEPTIDES
An International Journal

Editors
M. J. Brownstein
Laboratory of Cell Biology,
National Institute of Mental Health,
Building 36, Room 3A–17
Bethseda, Maryland 20892, U.S.A.

J. Hughes
Parke-Davis Research Units,
Addenbrooks Hospital Site,
Hills Road,
Cambridge CB2 2QB, U.K.

Volume 19

Churchill Livingstone

Edinburgh London Melbourne New York and Tokyo

Claims for issues not received should be made within 3 months of publication of the issue.

Copyright © Longman Group UK Ltd 1991. ISSN 0143–4179.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise, without either the prior written permission of the publishers (Churchill Livingstone, Robert Stevenson House, 1–3 Baxter's Place, Leith Walk, Edinburgh EH1 3AF), or a licence permitting restricted copying in the United Kingdom issued by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

Neuropeptides

Volume 19, Number 1 May 1991

Molecular Characterization and Peptide Specificity of Two Vasoactive Intestinal Peptide (VIP) Binding Sites in the Chicken Pineal 1
A. C. Meunier, P. Voisin, G. Van Camp, Y. Cenatiempo and J. M. Muller

Central Administration of Lys-D-Pro-Thr, an Interleukin-1 beta 193-195 Analogue, Stimulates Feeding in Rats 9
Y. Uehara, H. Shimizu, Y. Shimomura, M. Negishi, A. Fukatsu, K. Kashima, Y. Tanaka and I. Kobayashi

Blockade of Neuropeptide Y-Induced Potentiation of Noradrenaline-Evoked Vasoconstriction by D-myo-Inositol-1.2.6-Trisphosphate (PP56) in Rabbit Femoral Arteries 13
M. Adamsson and L. Edvinsson

Could Dietary Proteins Serve as Cyclo(His-Pro) Precursors? 17
C. Prasad, C. W. Hilton, F. Svec, E. S. Onaivi and P. Vo

Comparison of the Presence and Actions of Substance P and Neurokinin A in Guinea-Pig Taenia Coli 23
C. W. R. Shuttleworth, R. Murphy, J. B. Furness and S. Pompolo

Nicotine-Induced Alterations in Peripheral Tissue Concentrations of Native and Cryptic MET- and LEU-Enkephalin 35
G. R. Van Loon, K. Pierzchala and A. A. Houdi

Characterization of Calcitonin Gene-Related Peptide Receptors and Adenylate Cyclase Response in the Murine Macrophage Cell Line P388 D1 43
J. Abello, D. Kaiserlian, J. C. Cuber, J. P. Revillard and J. A. Chayvialle

Selective Attenuation of Cocaine-Induced Stereotyped Behaviour by Oxytocin: Putative Role of Basal Forebrain Target Sites 51
Z. Sarnyai, E. Babarczy, M. Kriván, G. Szabó, G. L. Kovács, T. Barth and G. Telegdy

Stress-Related Changes in Calcitonin Gene-Related Peptide Binding Sites in the Cat Central Nervous System 57
F. Guidobono, C. Netti, A. Pecile, I. Gritti and M. Mancia

Somatostatin 28 Interacts with CCK Receptor in Brain and Pancreas 65
N. Tahiri-Jouti, M. Dufresne, N. Viguerie, D. Fourmy, J. P. Estève, J. Rivier, L. Moroder, C. Susini and N. Vaysse

Acute Action of Polypeptide YY (PYY) on Rat Adrenocortical Cells: In Vivo Versus In Vitro Effects 73
G. Neri, P. G. Andreis, L. K. Malendowicz and G. G. Nussdorfer

The Effects of Intraperitoneally Administered Phencyclidine on the Central Nervous System: Behavioral and Neurochemical Studies 77
Q. Yang, T. Moroji, Y. Takamatsu, Y. Hagino and M. Okuwa

Selective Agonists of NK-2 Binding Sites Highly Active on Rat Portal Vein (NK-3 Bioassay) 91
G. Chassaing, S. Lavielle, D. Loeuillet, P. Robilliard, A. Carruette, C. Garret, J. C. Beaujouan, M. Saffroy, F. Petitet, Y. Torrens and J. Glowinski

A Correlation Study of CSF Neuropeptides in Alzheimer's and Parkinson's Disease 97
J. Jolkkonen, P. Hartikainen, R. Soikkeli, G. Bissette, C. Nemeroff and P. Riekkinen

The Effects of Atrial Natriuretic Peptide on Electroconvulsive Shock-Induced Amnesia in Rats. Transmitter-Mediated Action 103
A. Bidzseranova, B. Penke, G. Tóth and G. Telegdy

Somatostatin-28 (1-12)-Like Immunoreactivity in the Cat Diencephalon 107
M. de León, R. Coveñas, J. A. Narváez, G. Tramu, J. A. Aguirre and S. González-Barón

Behavioural and Biochemical Responses Following Activation of Midbrain Dopamine Pathways by Receptor Selective Neurokinin Agonists 119
P. J. Elliott, G. S. Mason, M. Stephens-Smith and R. M. Hagan

Receptor-Selective, Peptidase-Resistant Agonists at Neurokinin NK-1 and NK-2 Receptors: New Tools for Investigating Neurokinin Function 127
R. M. Hagan, S. J. Ireland, C. C. Jordan, I. J. M. Beresford, M. J. Deal and P. Ward

Capsaicin-Induced Release of Neurokinin A from Muscle and Mucosa of Gastric Corpus: Correlation with Capsaicin-Evoked Release of Calcitonin Gene-Related Peptide 137
D. Renzi, S. Evangelista, P. Mantellini, P. Santicioli, C. A. Maggi, P. Geppetti and C. Surrenti

Central and Peripheral Type Benzodiazepine Ligands Displace [^{3}H][3-ME-HIS^2]TRH from its Binding Sites in the Brain and the Anterior Pituitary and Antagonize the Effect of TRH in the Rat Duodenum 147
A. Järvinen, I. Paakkari and P. T. Männistö

Effect of Tachykinins in Small Human Airways 157
N. Frossard and P. J. Barnes

Human Brain Leucyl Aminopeptidase: Isolation, Characterization and Specificity Against Some Neuropeptides 163
A. M. Gibson, J. A. Biggins, B. Lauffart, D. Mantle and J. R. McDermott

Immunoautoradiographic Localisation of Enkephalinase (EC 3.4.24.11) in Rat Gastrointestinal Tract 169
H. Pollard, J. Moreau, P. Ronco, P. Verroust and J. C. Schwartz

Quantitative Evaluation of Octadecaneuropeptide-like Immunoreactivity in Hippocampus, Cortex and Cerebellum of Long-term Isolated Male Wistar Rats 179
S. Miachon, M. C. Tonon, H. Vaudry and M. Buda

Central Effects of Antiserum Against Human Atrial Natriuretic Polypeptide on Water and Electrolyte Metabolism and Plasma Arginine-8-Vasopressin Level in Conscious Rats 183
F. Laczi, G. Szabó, I. Jójárt, M. Vecsernyés, S. Csáti, G. L. Kovács, F. Szarvas and G. Telegdy

The Role of Dopamine in Regulation of Thyrotropin-Releasing Hormone in the Striatum and Nucleus Accumbens of the Rat 189
E. Przegaliński, L. Jaworska, R. Konarska and K. Gołembiowska

Comparison of Endothelin Binding and Calcium Mobilization in C6-BU-1 Rat Glioma and N18TG2 Mouse Neuroblastoma Cells 197
M. M. Gleason, H. Ling Wu, T. Li Yue, G. Feuerstein and P. Nambi

Vigabatrin Pre-Treatment Prevents Hilar Somatostatin Cell Loss and the Development of Interictal Spiking Activity Following Sustained Simulation of the Perforant Path 205
A. Ylinen, A. Valjakka, H. Lahtinen, R. Miettinen, T. F. Freund and P. Riekkinen

Interaction of Corticotropin-Releasing Factor (CRF) and Alpha-Helical CRF on Rat Neurointermediate Lobes: In Vitro Studies 213
L. C. Saland, J. A. Carr, A. Samora, S. Benavidez and D. Tejeda

In Vivo and In Vitro Evidence of Growth Hormone-releasing Factor-like Produced Locally in the Adenohypophyseal Cells of the Rat 223
J. Carretero, F. Sánchez, R. Vázquez, L. Cacicedo, F. Sánchez-Franco, G. Fernández and M. Montero

Activation of MU Opioid Receptors in the Pre-Optic-Anterior Hypothalamus Releases Prolactin in the Conscious Male Rat 231
R. Kapoor and J. O. Willoughby

Differential Secretion of Enkephalin-Like Peptides from Bovine Adrenal Chromaffin Cells 237
C. Cherdchu and T. D. Hexum

Structure-Activity Relationships of Mammalian Bombesin-like Neuropeptides in the Contraction of Rat Uterus 243
H. Mukai, H. Tanaka, K. Goto, K. Kawai, K. Yamashita and E. Munekata

Influence of the Replacement of Amino Acid by its D-Enantiomer in the Sequence of Substance P. 1. Binding and Pharmacological Data 251
H. Duplaa, G. Chassaing, S. Lavielle, J. C. Beaujouan, Y. Torrens, M. Saffroy, J. Glowinski, P. D'Orléans Juste, D. Regoli, A. Carruette and C. Garret

Influence of the Replacement of Amino Acid by its D-Enantiomer in the Sequence of Substance P. 2. Conformational Analysis by NMR and Energy Calculations 259
O. Convert, H. Duplaa, S. Lavielle and G. Chassaing

The ACTH-(4-9) Analogue ORG 2766 Facilitates Denervation Supersensitivity After a Unilateral 6-OHDA Lesion of the Corpus Striatum in Rats 271
P. E. Vos, G. J. Bluemink, G. Wolterink and J. M. Van Ree

Dopamine Receptor Antagonists Block the Effect of TYR-MIF-1 (TYR-PRO-LEU-GLY-NH_2) on the Opiate Form of Footshock-Induced Analgesia 281
Z. K. Krowicki

The Regional Distribution of Thyrotropin Releasing Hormone, LEU-Enkephalin, MET-Enkephalin, Substance P, Somatostatin and Cholecystokinin in the Rat Brain and Pituitary 287
F. Tang and W. S. Y. Man

Subject Index 293

Author Index 297

CURRENT BIBLIOGRAPHIES OF NEUROPEPTIDES PREPARED BY THE UNIVERSITY OF SHEFFIELD BIOMEDICAL INFORMATION SERVICE